

## H - O - H Water Technology, Inc. 500 South Vermont Street Palatine, Illinois 60067

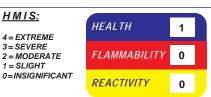
#### **EMERGENCY PHONE No"s**

847 - 358 - 7400 (H - O - H BUSINESS Hrs.) 800 - 424 - 9300 (CHEMTREC - 24 Hrs.)

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4 = EXTREME

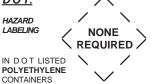
3 = SEVERE2 = MODERATE1 = SLIGHT



QUICKREFERENCE:

# DOT:

HAZARD LABELING



PRODUCT NAME CHEMICAL FAMILY DATE Rev. No. SUPERSEDES EPA-TPQ BY **PRODUCT IDENTIFICATION** DS-60 POTABLE WATER TREATMENT 1 - 1 - 11 8 - 1 - 08 NA

HAZARDOUS	CHEMICAL NAME	COMMON NAME	CAS No.	PERCENT	OSHA PEL	ACGIH-TLV	OTHER
COMPONENTS							
COMMENT	1. CONTAINS 30% SODIUM HEXAMETAPHOSPHATE (CAS No. 68915-31-1).						
	2. SODIUM HYPOCHLORITE ADDED TO	RETARD BACTERIAL ACTIVITY.					

PHYSICAL DATA	BOILING POINT (Degrees Fahrenheit)	215° F	SOLUBILITY (in water)	COMPLETE	EVAPORATION RATE ( water = 1.0 )	1.0
DATA	VAPOR PRESSURE (in millimeters of Mercury)	NA	SPECIFIC GRAVITY ( water = 1.0 )	1.280	рН	5.4
	VAPOR DENSITY ( air = 1.0 )	NA	PERCENT(%) VOLATILE (by volume)	NA		
	APPEARANCE and ODOR	CLEAR LIQUID WITH NO NOTICEABLE ODOR.				

FIRE AND	FLASH POINT (Degrees Fahrenheit)	METHOD	FLAMMABLE	LOWER EXPLOSIVE LIMIT		UPPER EXPLOSIVE LIMIT
EXPLOSION	NONE	NA	LIMITS	NOT APPLICABLE		NOT APPLICABLE
	EXTINGUISHING MEDIA		SPECIAL FIRE FIGHTING PROCEDURES		UNUSUAL FIRE AND EXPLOSION HAZARDS	
	WATER			NONE		NONE

REACTIVITY DATA	STABILITY STABLE X UNSTABLE	CONDITIONS TO AVOID	NONE KNOWN.	
INCOMPATABILITY (Materials to Avoid)		NONE KNOWN.		
	HAZARDOUS DECOMPOSITION PRODUCTS		D PHOSPHORUS OXIDES MAY FORM WHEN HEATED TO DECOMPOSITION.	
	HAZARDOUS POLYMERIZATION MAY	CONDITIONS	NONE KNOWN	
	WILL OCCUR WON'T OCCUR X	TO AVOID		

#### STORAGE AND HANDLING OTHER SPECIAL **PRECAUTIONS** 1. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. 1. NOT TO BE TAKEN INTERNALLY. 2. STORE IN A COOL, DARK, WELL-VENTILATED LOCATION AWAY FROM DIRECT SUNLIGHT AND OTHER SOURCES OF RADIANT HEAT. 2. NOT TO BE USED FOR OTHER THAN SPECIFIED PURPOSE. 3. KEEP AWAY FROM CHILDREN. 3. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. NEVER MOVE AN OPEN OR LOOSELY CLOSED CHEMICAL CONTAINER 4. <u>NEVER</u> MIX THIS MATERIAL WITH ANY OTHER CHEMICAL UNLESS AT THE SPECIFIC DIRECTION OF H-O-H PERSONNEL. 4. WEAR HAND AND FOOT PROTECTION WHEN MOVING HEAVY CONTAINERS. 5. TRIPLE RINSE EMPTY CONTAINERS BEFORE OFFERING FOR DIS-POSAL OR SALVAGE. $\underline{\textbf{NEVER}}$ REUSE EMPTY CONTAINERS.

HEALTH HAZARD	DATA	THRESHOLD LIMIT VALUE	NOT APPLICABLE	Oral LD <sub>50</sub> (Rat) 22,000 mg/kg, Pi	ractically Nontoxic.	DS-60
		ACUTE HEALTH HAZ	ZARDS		CHRONIC HEALTH HAZARDS	
			NONE KNOWN		MAY SEQUESTER CALCIUM AND CAUSE CALCIUM PHOSPH. DEPOSITS IN THE KIDNEYS. CHRONIC INGESTION OR INHA INDUCE SYSTEMIC PHOSPHOROUS POISONING. LIVER DAM DAMAGE, JAW/TOOTH ABNORMALITIES, BLOOD DISORDERS CARDIOVASCULAR EFFECTS CAN RESULT.	LATION MAY AGE, KIDNEY

EFFECTS OF	SKIN AND EYES / TARGET ORGAN	INHALATION	INGESTION
EXPOSURE	TISSUE IRRITATION - SLIGHT	NON - VOLATILE	POSSIBLE IRRITANT
	EYE CONTACT MAY CAUSE IRRITATION, REDNESS AND PAIN.  DERMAL CONTACT MAY CAUSE IRRITATION WITH REDNESS.	MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING AND SHORTNESS OF BREATH.	MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. CHRONIC EXPOSURE MAY CAUSE VOMITING, LETHARGY, DIARRHEA, BLOOD CHEMISTRY EFFECTS, HEART DISTURBANCES AND CENTRAL NERVOUS SYSTEM EFFECTS.
CONDITIONS AGGRAVATED	NONE KNOWN	NONE KNOWN	IF INGESTION OCCURS, STOMACH ULCERS OR OTHER PRE-EXISTING DIGESTIVE CONDITIONS.

<b>EMERGENCY</b>	SKIN AND EYES	INHALATION	INGESTION
PROCEDURES	EYES	NON - VOLATILE	NON - TOXIC
	FLUSH EYES WITH WATER FOR 15 MINUTES. GET PROMPT MEDICAL ATTENTION IF IRRITA- TION DEVELOPS.		SODIUM HEXAMETA PHOSPHATE SOLUTIONS ARE BASICALLY NON-TOXIC. IF A SIGNIFICANT QUANTITY OF THIS PRODUCT IS INGESTED AND DISTRESS OCCURS. SEEK MEDICAL ATTENTION.
SKIN			
	FLUSH WITH WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH WELL BEFORE REUSE. IF IRRITATION DEVELOPS, SEEK MEDICAL ADVICE.		

CARCINOGEN	NATIONAL TOXICOLOGY PROGRAM (NTP)	I A R C MONOGRAPHS	O S H A REGULATED
LISTING	NO	NO	NO

SPILL OR LEAK	SPILLS AND RELEASES	WASTE DISPOSAL METHODS
PROCEDURES	CONTAIN SPILLED MATERIAL AND COLLECT INTO SUITABLE CONTAINER FOR POSSIBLE RECOVERY OR DISPOSAL.	CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WASTE DISPOSAL.

CONTROL MEASURES	EYE PROTECTION	SAFETY GLASSES.				
	RESPIRATORY PROTECTION	NOT REQUIRED				
	OTHER PROTECTIVE EQUIPMENT	NOT REQUIRED.				
	LOCAL EXHAUST	YES	SPECIAL VENTILATION	NOT REQUIRED FOR NORMAL USE.		
	MECHANICAL VENTILATION	NOT REQUIRED	OTHER VENTILATION	NOT REQUIRED FOR NORMAL USE.		
	PROTECTIVE GLOVES	WORK GLOVES SUGGESTED.	PROTECTIVE CLOTHING	NOT REQUIRED FOR NORMAL USE.		

### **REFERENCES**

- 1. Threshold Limit Values For Chemical Substances And Physical Agents In The Work Environment; ACGIH, 1989.
  2. OSHA Safety and Health Standards: 29CFR 1900 to 1910, July 1, 1988
  3. Fifth Annual Report on Carcinogens; U.S. Dept. of Health and Human Services, National Toxicology Program, 1989 (Summary).

- Hith Annual Report on Carcinogens; U.S. Dept. of Health and Human Services, National Toxicology Program, 1989 (Summary).
   M. Sittig, Handbook of Toxic & Hazardous Chemicals, (Noyes Publications, Park Ridge, N. J., 1981).
   Community Right To Know Manual, (Thompson Publishing Group, Washington, D. C., 1990).
   Right To Know / Chemical Manual (ILLINOIS MANUFACTURES ASSOCIATION; Rooks, Pitts, and Poust, 1990).
   Toxic and Hazardous Industrial Chemicals Safety Manual (THE INTERNATIONAL TECHNICAL INFORMATION INSTITUTE, 1975).
   M. J. Lefevre, S. A. Conibear, First Aid Manual for Chemical Accidents, 2nd ed. (Van Nostrand Reinhold, New York, 1989).
   Hazardous Materials Guide; Shipping, Materials Handling and Transportation (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990)
   Hazard Communication Guide; Federal & State Right to Know Standards (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990)

	REPORTABLE	IF MORE THAN THE INDICATED QUANTITY IS DISCHARGED TO DRAINAGE (Sewer/surface water), AIR, OR SOIL, IMMEDIATELY REPORT AS INDICATED.			
	QUANTITY	CERCLA OR EPA (Extremely Hazardous) NATIONAL RESPONSE CENTER (800 - 424 - 8802)	STATE EMERGENCY RELEASE NOTIFICATION ILLINOIS (Only) 800 - 782 - 7860 (Consult for others)	LOCAL EMERGENCY RESPONSE AUTHORITY Record Telephone No. of Local Response Authority	
- 1	WRITTEN REPORT MUST FOLLOW	NA	NA	NA	